

STAT

SOURCE

Documentary as indicated. (Information requested.)

RECENTLY PUBLISHED RESEARCH OF THE INSTITUTE OF PHYSICAL PROBLEMS, ACADEMY OF SCIENCES USER

"Crystallization of Sclutions," B. Peshkov, Inst Phys Problems, acad Sci USSR

"Acta Physicochimica" Vol 21, 1946, pp 109-34

Crystallization from the systems benzene-toluene, Eg-Zn, and EN03-H20 was followed. The apparatus and experimental procedure are described in detail. Measurements were made with a thermocouple accurately calibrates from -160° to 20°. Data for the three systems are tabulated. A sutectic close to 6.62% benzene is shown at -99°. Such a sutectic at 0.56% of Zn and 420 was observed, and for the third system the entectic is at 10.2% KWO₂ at -2.85°. Examination of crystals from photomicrographs taken of this system without Micol prisms and with crossed Missis gave information that shows the role played by diffusion during crystallization. A more detailed discussion is given in a thesis by Peakkov (1944) in the Institute of Physical Problems, Academy of Sciences USER. The article attempts by the 'theory of diffusion to show the order of departure of real processes from equilibrium.

- E N D ..

FOR OFFICIAL USE ONLY

			CLA	SSIFICA	TION		
STATE	IX	NAYY	X	NSRB		DISTRIBUTION	
ARMY	区	AIR	X	FBI		X	 \Box
	~						

- 1 -